MicroLite

The plug & record mini data logger

USB

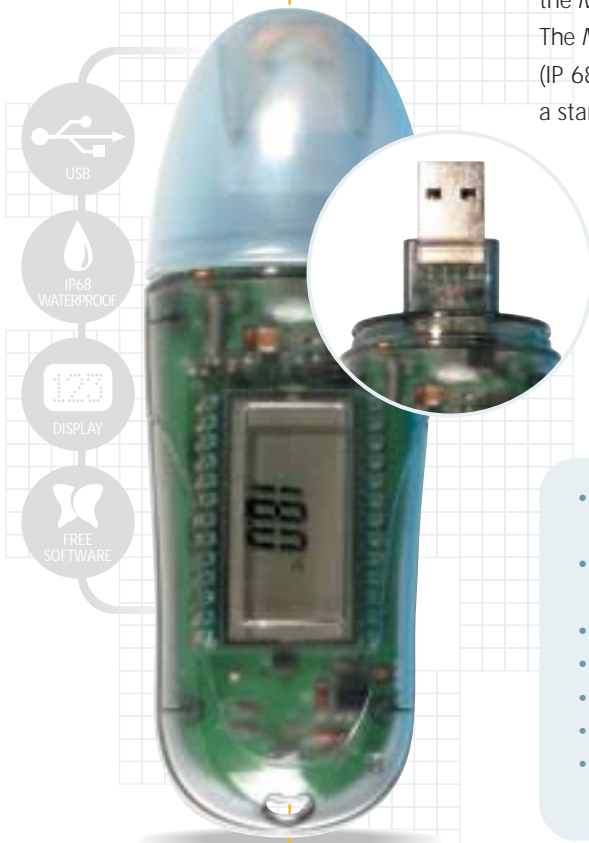IP68
WATERPROOF

DISPLAY

FREE
SOFTWARE

Aesthetic and innovative, *MicroLite* is a small data logger for monitoring and recording temperature. *MicroLite* is the ultimate plug and record data logger. Despite the compact design, *MicroLite* data is clearly displayed on the logger's numeric screen. In addition, the *MicroLite* stored data can be downloaded automatically to the *MicroLab Lite* software. The *MicroLite* has been dustproof and waterproof tested to meet highest market standards (IP 68). To further ensure easy global usage, the battery is easily replaceable since it is a standard model used worldwide.

MicroLite works with *MicroLab Lite* software, which can be downloaded for free directly from the Fourier Systems Ltd. website: www.fouriersystems.com.

The product is designed for ultimate application accessibility, whether mobile or static. Typical applications for this product include transportation as well as warehousing of food, drugs and hi-tech equipment.

- **High functionality yet low cost enabling use as one-trip logger**
- **High resolution 16-bit (0.1°C) data logger**
- **Range -40ºC to 80ºC**
- **High accuracy 0.3°C**
- 16,000 sample memory
- High sampling rate of 1 per second
- Long life battery using NanoWatt technology

- USB 2.0 interface enabling fast track communication
- LCD display with decimal point reading
- Magnet key to activate logging
- Min/Max and alarm level readings
- Built-in real-time clock and calendar
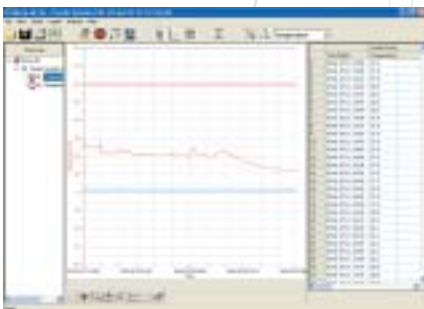- Complimentary MicroLab Lite analysis software

fourier

Specifications

Internal Sensor	
Temp:	-40 to 80 ºC
Standards compliance:	> Dust and Waterproof IP68
	> Thermal conductor enabling fast response time

Outputs	USB 2.0 communication

Sampling	
Resolution:	A/D resolution: 16-bit, 0.1°C
Capacity:	Memory capacity: 8KB, 16KB
Sampling rate:	1 per second to 1 per 2 hours
Accuracy:	0.3°C

Power Supply	
Battery life:	> 2 years at 1 sample per minute
	> Replaceable 3V lithium battery CR2032

Design	
Dimensions:	> 11 x 3.9 x 2.6 cm
	> Strap-on capabilities

Weight	45.5 gr

Display	
	> LCD with decimal point
	> Visual Alert - Alarm icon when crossing predefined thresholds
	> Low battery indication

Operation	
	> Data scroll on the LCD
	> Reed switch to start measuring

Software	
	> MicroLab Lite for Windows 98/2000/ME/XP/NT 4.0 or higher
	> Also available – DatPass 21 CFR Part 11 Standards Compliance Software

Standards Compliance
CE, FCC compliance

Ordering Information

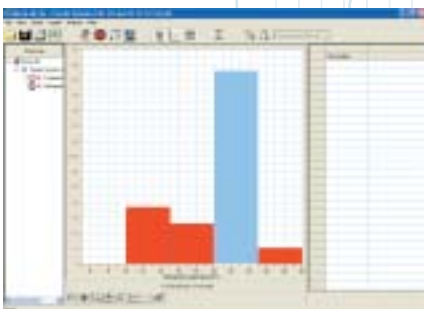| Item	Memory	P/N
MicroLite	8,000 samples	LITE5008
MicroLite	16,000 samples	LITE5016

MicroLab Lite Software

MicroLite works with *MicroLab Lite* software whose features have been designed specifically in response to requests from the field enabling a broader and more complex range of application environments. Features include analysis functionality such as Statistics – maximum, minimum and average, enabling a quick glance summary of the environment and historical analysis. This is typically useful for applications requiring a constant bird's eye picture of the conditions their materials are kept in.

MicroLab Lite features

- Complete data analysis
- Downloads from *MicroLite*
- Graph and table displays
- Alarm levels per *MicroLite* displays
- Ability to set-up *MicroLite*
- Comments for each data logger
- Daily status reports in various formats

Advanced data analysis features

- Mean kinetic temperature, an expression of cumulative thermal stress in different temperatures during storage, transportation and distribution.
- Pasteurization provides analysis for the most common methods of pasteurization in Industry: High Temperature Short Time (HTST); Ultra Pasteurization (UP) and Ultra High Temperature (UHT) pasteurization.
- Histogram provides a graphical view of historical results presented according to defined parameters of periods of time and percentage levels. This provides a level of analysis which can be tailored to specific environment needs for an immediate picture.
- Annotation enables text to be placed on the graph at relevant points where certain information needs to be highlighted.
- Data records can be exported to your preferred spreadsheet application.
- GMT Recording - Set data recording to meet with GMT Greenwich Mean Time, for use in international environments, particularly export and import.

fourier